## CRITICAL ITEMS LIST

PROJECT: SRMS (-5 MCTU INSTALLED)
ASS'Y MOMENCEATURE: MCTU

SYSTEM: ELECTRICAL SUBSYSTEM ASS'Y P/N: 51155F160-5

DATE: 11 JUL 91 CIT REV: 0

FMEA REF.	FMEA REV.	NAME, OFY, A DRAWING REF.	FAILURE MODE	FAILURE EFFECT	HDWR / FUNC. RATIONALE FOR ACCEPTANCE
, ,,,,	MEY.	DESIGNATION	AND Cause	ON END TEM	2/18
2505	0	POWER		···	CRITICALITY SCREENS: A-PASS, B-PASS, C-PASS
		POMER CONDITIONER GTY. 3. SCHEMATICS 812778 815444 2559054	HODE: HCPC FAILURE  CAUSE(S): 1) EEE PARTS FAILURE. 2) +10V RAIL SHORTS. 3) +12V RAIL SHORTS. 5) +5V RAIL SHORTS. 6) +28V BUS FILTERCON SHORTS.	MCPC SHUT-DOWN. BRAKES ARE APPLIED. ARM COMES TO REST. ALL COMPUTER SUPPORTED MODES IMOPERATIVE. AUTO SAFING FROM DEC PANEL. LOSS OF LIMPING DURING END EFFECTOR CAPTURE. LOSS OF EE AUTO DRIVE MODE. EE AUTO SEQUENCE IN PROGRESS WILL STOP.  WORST CASE UNABLE TO RELEASE BRAKES. LOSS OF ARM DRIVE CAPABILETY.  REDUKDANT PATHS REMAINING TO CONTINUE OPERATIONS: 1) DIRECT DRIVE "AND EE HANUAL MODES". 2) BACK-UP DRIVE. 3) JETTISON (TO SECURE ORBITER).	DESIGN FEATURES  EEE PARTS HAVE BEEN SELECTED AND CONTROLLED IN ACCORDANCE WITH SPAR-RNS-PA.003. HIS DOCUMENT DEFINES THE PROGRAM REQUIREMENTS FOR MONITORING AND CONTROLLING EEE PARTS. THE REQUIREMENTS FOR MONITORING MEET PARTS. THE REQUIREMENTS HOLIDE PART SELECTION TO AT LEAST "ESTABLISHED RELIABILITY" LEVELS, AND ACCIVITIES ARE SPECIFED TO ENSURE AT LEAST GOLIVALENT OWALTY FOR MONISHADARD AND IRREGULAR PARTS. RELIABILITY ANALYSIS HAS CONFIRMED NO PARTS WITH GENETICALLY HIGH FAILURE RATES. AEROSPACE DESIGN BY BITH GENETICALLY HIGH FAILURE RATES. AEROSPACE DESIGN GOUND FAILURE REPLIED. SUCH DESIGN MAS BEEN REVIEWED AND TOWN STITISTACTORY THROUGH THE DESIGN HOLT PROCESS. THE CLUDING THE USE OF RELIABILITY AND SAFE, THE CLUDING THE USE OF RELIABILITY AND SAFE, THE CLUDING THE USE OF FREIABILITY AND SAFE, THE CHARLYSIS MAS BEEN CONDUCTED TO ENSURE HAT PROFESS WHICH IS EQUIVALENT TO THE MASA MATERIALS USAGE REQUIREMENTS. WORST CASE MANLYSIS BEEN CONDUCTED TO ENSURE HAT PROFESS HAVE BEEN REVIEWED TO ENSURE AND AFTEN AND SHEEL COMPLETE AND ACCORDANCE HAT BY AND AND THE CONFIRM THE PARTS MEET THE DERRATURE AND ACCORDANCE CONDUCTED TO ENSURE HAT PROFESS HAVE BEEN REVIEWED TO ENSURE ADEQUATE CIRCUIT DARD DESIGNS HAVE BEEN REVIEWED TO ENSURE ADPONDED THE MASA CONDUCTED TO THE MASA CO
PREPARED BY:	: MIN	<u> </u>	SUPERCEDING DATE:	MOHE	DATE: 11 JUL 91 CIT REV. D

## CRITICAL ITEMS LIST

PREPARED BY:

MFWG

PROJECT: SRMS (5 MCIU INSTALLED)

ASS'Y NOMERICIATURE: NCTU

SYSTEM: ELECTRICAL SUBSYSTEM
ASS'Y P/N: \$1155F160-5 SHEET: 2

THER THER WANE, OTT. & CALLING COURSE				SS'Y NOMENCLATURE: N	ASSIV P/N: STISSFIED SHEET:
COMOTIONER OF COMOTION OF COMO	REF. RE	A NAME OTY & DRAWING REF. DESIGNATION	AND	ON	HOUR / FUNC. RATIONALE FOR ACCEPTANCE
	2505 0	POMER COMDITIONER QTY. 1. SCHEMATICS 812798 815444	MODE: MCPC FAILURE  CAUSE(S): 1) EEE PARTS FAILURE. 2) +10V RAIL SHORTS. 4) -12V RAIL SHORTS. 5) +5V RAIL SHORTS. 6) +28V BUS FILTERCOM	MCPC SHUT DOWN. BRAKES ARE APPLIED. ARM COMES TO REST. ALL COMPUTER SUPPORTED MODES I MOPERATIVE. AUTO SAFING FROM D&C PANEL. LOSS OF LIMPING DURING END EFFECTOR CAPTURE. LOSS OF EE AUTO DRIVE MODE. EE AUTO SEQUENCE IN PROGRESS WILL STOP. WORST CASE UNABLE TO RELEASE BRAKES. LOSS OF ARM ORIVE CAPABILITY. REDUNDANT PATHS REMAINING TO CONTINUE OPERATIONS: 1) DIRECT DAIVE "AND EE MANUAL MODES". 2) BACK-UP ORIVE. 3) JETTISON (TO SECURE	THE DESIGN OF THIS CIRCUIT ACCOMMODATES ALL WORST CASE

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RMS/ELEC - 197

SUPERCEDING DATE: NONE

DATE: 11 JUL 91

CII REV: 0

MRET.  REV.  DRAWING AE.  DRAWING A.			,	SS'T NUMENCLATURE: MI	CIV ASS'Y P/N: 51155F160-5 SHEET:
APPLIED. ARM SCHMATICS B12798 B1544 2559054  APPLIED. ARM SPORTED MODES B161798 B1544 B1544 B1544 B109 RAIL SMORTS. B11 VER RAIL SMORTS. B11 VER RAIL SMORTS. B12 V RAIL SMORTS. B13 V RAIL SMORTS. B14 V RAIL SMORTS. B15 V RAIL SMORTS. B16 V RAIL SMORTS. B17 V RAIL SMORTS. B17 V RAIL SMORTS. B17 V RAIL SMORTS. B18 V RAIL SMORTS. B18 V RAIL SMORTS. B19 V RAIL SMORTS. B10 V RAIL SMORTS. B19 V R	REF. REV.	DRAWING REF. DESIGNATION POWER	AND CAUSE HODE:	ON END FREM MCPC SHUT DOWN.	HDWR / FUNC. RATIONALE FOR ACCEPTANCE 2/1R CRITICALITY SCREENS: A-PASS, B-PASS, C-PASS
		CONDITIONER QTV. 1. SCHEMATICS B12798 815444	CAUSE(S): 1) EEE PARTS FAILURE. 2) +10V RAIL SHORTS. 3) +12V RAIL SHORTS. 4) -12V RAIL SHORTS. 5) +5V RAIL SHORTS. 6) +28V BUS FILTERCOM	BRAKES ARE APPLIED. ARM COMES TO REST. ALL COMPUTER SUPPORTED MODES IMOPERATIVE. AUTO SAFING FROM DAC. PANEL. LOSS OF LIMPING DURING EMD EFFECTOR CAPTURE. LOSS OF EE AUTO DRIVE MODE. EE AUTO SEQUENCE IN PROGRESS WILL STOP. WORST CASE UNABLE TO RELEASE BRAKES. LOSS OF ARM DRIVE CAPABILITY. REDUNDANT PATHS REMAINING TO CONTINUE OPERATIONS: 1) DIRECT DRIVE "AND EE MANUAL MODES" 2) BACK-UP DRIVE. 3) JETTISON (TO SECURE	THE MCIU IS SUBJECTED TO THE FOLLOWING ACCEPTANCE ENVIRONMENTAL TESTING AS AM LRU.  O VIBRATION: LEVEL AND DURATION - REFERENCE TABLE 3.2  O THERMAL: +40 DEGREES C TO -16 DEGREES C (2 CYCLES)  QUALIFICATION TESTS  THE HCIU IS SUBJECTED TO THE FOLLOWING LRU QUALIFICATION ENVIRONMENTS:  O VIBRATION: LEVEL AND DURATION - REFERENCE TABLE 3.2  O SHOCK: BY SINILARITY TO -3 MCTU  O THERMAL: +51 DEGREES C TO -27 DEGREES C (10 CYCLES)  O HUMIDITY: BY SIMILARITY TO -3 MCTU  O EMC: MIL-STO-461 AS MODIFIED BY SL E-8002 (TESTS CEO1, CEO3, CSO1, CSO2, CSO6, REO2 (N/B), RSO1, RSO2  O LIFE: 630 OPERATING MOURS 1000 POWER ON/OFF CYCLES
The state of the s			,		L. Parent

PROJECT: SRMS ( 5 MC1U INSTALLE )
ASS'Y MOMENCLATURE: MC1U

SYSTEM: ELECTRICAL SUBSYSTEM
ASS'Y P/N: 51155F160-5

SHEET: \_\_4 **FHEA** FHEA NAME, QTY, & FAILURE MODE FAILURE EFFECT HDWR / FUNC. 2/1R RATIONALE FOR ACCEPTANCE DRAWING REF. REF. REV. AND ON DESIGNATION CAUSE END STEM CRITICALITY SCREENS: A-PASS, B-PASS, C-PASS 2505 0 POWER HODE: MCPC SHU1-DOWN. **QA/INSPECTIONS** CONDITIONER HCPC FAILURE BRAKES ARE OTY. 1. APPLIED. ARM DOCUMENTED QUALITY CONTROLS ARE EXERCISED THROUGHOUT DESIGN SCHEMATICS PROCUREMENT, PLANNING, RECEIVING, PROCESSING FABRICATION, ASSEMBLY, LESTING AND SHIPPING OF THE MCIU. GOVERNMENT SOURCE COMES TO REST. 812798 CAUSE(S): ALL COMPUTER 815444 1) EEE PARIS SUPPORTED MODES INSPECTION IS INVOKED AT VARIOUS LEVELS OF COMPONENT ASSEMBLY 2559054 FAILURE. INOPERATIVE. AND TEST OPERATIONS. MANDATORY ENSPECTION POINTS ARE EMPLOYED 2) +10V RAIL AUTO SAFING AT VARIOUS LEVELS OF ASSEMBLY AND TEST. SHORTS. FROM D&C PANEL. LOSS OF LEMPING 3) +12V RAIL EEE PARTS INSPECTION IS PERFORMED AS REQUIRED BY SHORTS. **DURING END** SPAR-RMS-PA.003. EACH EEE PART IS QUALIFIED AT THE PART LEVEL EFFECTOR 4) -12V RALL TO THE REQUIREMENTS OF THE APPLICABLE SPECIFICATION. ALL EEE. SHORIS. CAPTURE. PARTS ARE 100% SCREENED AND BURNED IN, AS A MINIMUM 5) +5V RAIL LOSS OF EE AUTO REQUIRED BY SPAR-RMS-PA.003, BY THE SUPPLIER. ADDITIONALLY, SHORTS. DRIVE MODE. EE EEE PARTS ARE 100% RE-SCREENED IN ACCORDANCE WITH 6) +ŻŐÝ BUS AUTO SEQUENCE REQUIREMENTS, BY AN INDEPENDENT SPAR APPROVED TESTING FACILITY. DPA IS PERFORMED AS REQUIRED BY PA.003 ON A RANDOMLY FILTERCON. IN PROGRESS SHORTS. WILL STOP. SELECTED 5X OF PARTS, MAXIMUM 5 PIECES, MINIMUM 3 PIECES FOR EACH LOT NUMBER/DATE CODE OF PARTS RECEIVED. WORST CASE WIRE IS PROCURED, INSPECIED, AND TESTED TO SPAR-RMS-PA.003. UNABLE TO MELEASE BRAKES. RECEIVING INSPECTION VERIFIES THAT ALL PARTS RECEIVED ARE AS LOSS OF ARM IDENTIFIED IN THE PROCUREMENT DOCUMENTS, THAT NO PHYSICAL DRIVE DAMAGE HAS OCCURRED TO PARTS DURING SHIPMENT, THAT THE RECEIVING DOCUMENTS PROVIDE ADEQUATE TRACEABILITY INFORMATION CAPABILITY. AND SCREENING DATA CLEARLY IDENTIFIES ACCEPTABLE PARTS. REDUNDANT PATHS REMAINING PARTS ARE INSPECTED THROUGHOUT MANUFACTURE AND ASSEMBLY AS APPROPRIATE TO THE MANUFACTURING STAGE COMPLETED. THESE INSPECTIONS INCLUDE, TO CONTINUE OPERATIONS: 1) DIRECT PRINTED CIRCUIT BOARD INSPECTION FOR TRACK SEPARATION, DAMAGE AND ADEQUACY OF PLATED THROUGH HOLES, DRIVE "AND EE MANUAL MODES". 2) BACK-UP COMPONENT MOUNTING INSPECTION FOR CORRECT SOLDERING, WIRE LOOPING, STRAPPING, ETC. OPERATORS AND INSPECTORS ARE TRAINED AND CERTIFIED TO MASA NHB 5300.4(3A-1) STANDARD. DRIVE. 3) JETTISON (10 SECURE ORBITER). CONFORMAL COATING INSPECTION FOR ADEQUATE PROCESSING IS PERFORMED USING ULTRAVIOLET LIGHT TECHNIQUES. POST P.C. BD. INSTALLATION INSPECTION, CLEANLINESS AND WORKMANSHIP (SPAR/GOVERNMENT REP. MANDATORY INSPECTION POINT) P.C. BD. INSTALLATION INSPECTION, CHECK FOR CORRECT BOARD INSTALLATION, ALIGNMENT OF BOARDS, PROPER CONNECTOR CONTACT MATING, WIRE ROUTING, STRAPPING OF WIRES ETC., PRE-CLOSURE INSPECTION, WORKMANSHIP AND CLEARLINESS (SPAR/GOVERNMENT REP. - MANDATORY INSPECTION POINT) PRE ACCEPTANCE TEST INSPECTION, WHICH INCLUDES AN AUDIT OF LOWER TIER INSPECTION COMPLETION, AS BUILT CONFIGURATION VERIFICATION TO AS DESIGN ETC., (MANDATORY INSPECTION POINT) A TEST READINESS REVIEW (TRR) WHICH INCLUDES VERIFICATION OF TEST PERSONNEL, TEST DOCUMENTS, TEST EQUIPMENT CALIBRATION/ VALIDATION STATUS AND HARDWARE CONFIGURATION IS CONVENED BY

NTTACHMENT -

PROJECT: SRMS (-S MC[U INSTALLED)
ASS'Y MOMENCLATURE: MC[U

SYSTEM: ELECTRECAL SUBSYSTEM
ASS'Y P/N: 571557160-5 SHEET: 5

FHEA REF.	FNEA REV.	NAME GTY & DRAWING REF. DESIGNATION	FAILURE NODE AND CAUSE	FAILURE EFFECT ON END ITEM	HOWR / FUNC. RATIONALE FOR ACCEPTANCE 2/1R CRITICALITY SCREENS: A-PASS, B-PASS, C-PASS	
2505	0	POWER COND 1 T FOMER QTY. 1 SCHEMATICS 812798 815444 2559054	MODE: HCPC FAILURE  CAUSE(S): 1) ESE PARIS FAILURE. 2) +10V RAIL SHORTS. 3) +12V RAIL SHORTS. 4) -12V RAIL SHORTS. 5) +5V RAIL SHORTS. 6) +28V BUS FILTERCON SHORTS.	MCPC SHUT-DOWN. BRAKES ARE APPLIED. ARM COMES TO REST. ALL COMPUTER SUPPORTED MODES INOPERAFIVE. AUTO SAFING FROM DEC PAMEL. LOSS OF LIMPING DUBING END EFFECTOR CAPTURE. LOSS OF EE AUTO DRIVE MODE, EE AUTO SEQUENCE IN PROGRESS WILL STOP.  WORST CASE UMABLE TO RELEASE BRAKES. LOSS OF ARM ORIVE CAPABILITY. AEDUMDANT PATHS REMAINING TO CONTINUE OPERATIONS: 1) DIRECT DRIVE "AND EE MANUAL MODES". 2) BACK-UP DRIVE. 3) JETTISON (TO SECURE	QUALITY ASSURANCE IN COMJUNCTION WITH ENGINEERING, RELEABILITY, CONFIGURATION COMIROL, SUPPLIER AS APPLICABLE, AND THE GOVERNENT REPRESENTATIVE, PRIOR TO THE START OF ANY FORMAL IESTING (ACCEPTANCE OR QUALIFICATION).  ACCEPTANCE TESTING (ATP) INCLUDES AMBIENT, VIBRATION, AND THERMAL TESTING (SPAR/GOVERNMENT REP MANDITORY INSPECTION POINT).	
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PREPARED BY	: <u>H</u> I	ugl	SUPERCEDING DATE	: NONE	DATE: 11 JUL 91 CIL REV: 0	

RMS/ELEC - 200

CRI	TICAL	ITEMS	LIST

FMEA	FMEA	NAME, GTY, &	f ————————	SS'Y HOMENCEATORE: H	T	SYSTEM: ELECTRICAL SUBSYSTEM ASS'Y P/N: 51155F160-5	SHEET:	6	
REF.	REV.	DRAWING RÉF. DESIGNATION	FAILURE MODE AND CAUSE	FAILURE EFFECT ON END ITEM	HDWR / FUNC. 2/1R CRITICALITY	RATIONALE FOR ACCEPTANCE		-	
2505	0	POWER COMDITIONER OTY. 1. SCHEMATICS B12798 B15444 2559054	MODE: MCPC FAILURE  CAUSE(S): 1) EEE PARTS FAILURE. 2) +10V RAIL SHORTS. 4) -12V RAIL SHORTS. 5) +5V RAIL SHORTS. 6) +28V BUS FILTERCON SHORTS.	MCPC SHUT-DOWN. BRAKES ARE APPLIED. ARM COMES TO REST. ALL COMPUTER SUPPORTED MODES INOPERATIVE. AUTO SAFING FROM DEC PANEL. LOSS OF LIMPING DURING END EFFECTOR CAPTUME. LOSS OF EE AUTO DRIVE MODE. EE AUTO SEQUENCE IM PROGRESS WILL STOP.  MORS! CASE UMABLE TO RELEASE BRAKES. LOSS OF ARM ORIVE CAPABILITY. REDUMDANT PATHS REMAINING TO CONTINUE OPERATIONS: 1) DIRECT ORIVE "AND EE MANUAL MODES". 2) BACK-UP DRIVE. 3) JETTISOM (TO SECURE ORBITER).	FAILURE HIS		•		
									ATTACHMENT - PAGE 445 OF 471
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CIL REV: 0

	FHEA REV.	NAME Q1Y & DRAWING REF. DESIGNATION	FAILURE MODE AND CAUSE	FAILURE EFFECT ON END CIEM	HOWR / FUNC. RATIONALE FOR ACCEPTANCE 2/1R CRITICALITY SCREENS: A-PASS, B-PASS, C-PASS
2505	0	POWER CONDITIONER QTY. 1. SCHEMATICS 812798 815444 2559054	MODE: MCPC FATEURE  CAUSE(S): 1) EEE PARTS FAILURE. 2) +10V RAIL SHORTS. 3) +12V RAIL SHORTS. 5) +5V RAIL SHORTS. 6) +28V BUS FILTERCON SHORTS.	MCPC SHUI-DOWN. BRAKES ARE APPLIED. ARM COMES TO REST. ALL COMPUTER SUPPORTED MODES INOPERATIVE. AUTO SAFING FROM DBC PANEL. LOSS OF LIMPING DURING END EFFECTOR CAPTURE. LOSS OF EE AUTO DRIVE MODE. EE AUTO SEQUENCE IN PAGGRESS WILL STOP. WORST CASE UNABLE TO RELEASE BRAKES. LOSS OF ARM DRIVE CAPABILITY. REDUMDANT PATHS REMAINING TO CONTINUE OPERATIONS: 1) DIRECT DRIVE "AND EE MANUAL MODES". 2) DACK-UP DRIVE. 3) JETTISON (TO SECURE ORBITER).	OPERATIONAL EFFECT  LOSS OF DATA. AUTOBRAKES. LOSS OF COMPUTER SUPPORTED MODES. LOSS OF LIMPING. LOSS OF ER AUTO MODES. DAC DATA WILL BE INV. ID. DIRECT DRIVE AND BACKUP AVAILABLE. EE MODE MANUAL AVAILABLE WITHOUT VALKBACKS.  CREW ACTION  SELECT DIRECT DRIVE. USE EE MODE MANUAL. SINGLE/DIRECT DRIVE SWITCH SHOULD BE PULSED TO MAINTAIN PROPER RATES.  CREW TRAINING  CREW IS TRAINED: TO ALWAYS OBSERVE WHETHER THE ARM IS RESPONDING PROPERLY TO COMMANDS. IF IT ISN'T, APPLY BRAKES. TO RECOGNIZE AND RESPOND TO ALL OFF-ROMINAL OPERATIONS OF THE END EFFECTOR.  MISSION CONSTRAINT  OPERATE UNDER VERNIER RATES WITHIN TO FT OF STRUCTURE. THE OPERATOR MUST BE ABLE TO DETECT THAT THE ARM/PAYLOAD IS RESPONDING PROPERLY TO COMMANDS VIA WINDOW AND/OR CCTV VIEWS DURING ALL ARM OPERATIONS.
REPARED BY:	MI	FWG	SUPERCEDING DAT	E: NONE	DATE: 11 JUL 91 C11 REV:

CRIT	LICYF	itemb	LIST

FNEA	FMEA	MAME, DIY A	FAILURE MODE	SS'Y NOMENCLATURE: N			P/N: 51155F160-5	SHEET:	8	
REF.	REV.	MAME, QIY, & DRAWING RÉF. DESIGNATION	AND CAUSE	FAILURE EFFECT ON END ITEM	HDWR / FUNC. 2/1r Criticality		FOR ACCEPTANCE ASS, B-PASS, C-PASS			
2505	0	POMER CONDITIONER QTY. 1. SCHEMATICS 812798 815444 2559054	MODE: MCPC FAILURE  CAUSE(S): 1) EEE PARTS FAILURE. 2) +10V RAIL SHORTS. 3) +12V RAIL SHORTS. 4) -12V RAIL SHORTS. 5) +5V RAIL SHORTS. 6) +28V BUS FILTERCOW SHORTS.	MCPC SHUT-DOAM. BRAKES ARE APPLIED. ARM COMES TO REST. ALL COMPUTER SUPPORTED MODES INOPERATIVE. AUTO SAFING FROM D&C PANEL. LOSS OF LIMPING DURRING ENO EFFECTOR CAPTURE. LOSS OF EE AUTO DRIVE NODE. EE AUTO SEQUENCE IM PROGRESS WILL STOP.  MORST CASE UMABLE TO RELEASE BRAKES. LOSS OF ARM DRIVE CAPABILITY.  REDUNDANT PATHS REMATHENG TO CONTINUE OPERATIONS: 1) DIRECT ORIVE "AND EE MANUAL MODES". 2) BACK-UP DRIVE. 33 JETTISON (TO	SCREEN FAILURE	S	ASS, B PASS, C PASS	•		
:				SECURE ORBITER).						PAGE 447 OF 471
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CIL REV: \_0

FMEA REF.	FMEA REV.	HAME OIY & DRAWING REF. DESIGNATION	FAILURE MODE AND CAUSE	FAILURE EFFECT ON END 11EM	HDWR / FUNC. RATIONALE FOR ACCEPTANCE  2/1R  CRITICALITY SCREENS: A-PASS, B-PASS, C-PASS	
2505	0	POWER CONDITIONER GTY. 1. SCHEMATICS 812798 815444 2559054	MODE: MCPC FAILURE  CAUSE(S): 1) EEE PARTS FAILURE. 2) +10V RAIL SHORTS. 3) +12V RAIL SHORTS. 4) -12V RAIL SHORTS. 5) +5V RAIL SHORTS. 6) +28V BUS FILTERCOM SHORTS.	NCPC SHUT-DOWN. BRAKES ARE APPLIED. ARM COMES TO REST. ALL COMPUTER SUPPORTED HODES INOPERATIVE. AUTO SAFING FROM D&C PAMEL. LOSS OF LIMPING DURING END EFFECTOR CAPTURE. LOSS OF EE AUTO ORIVE MODE. EE AUTO SEQUENCE IN PROGRESS VILL STOP. WORST CASE UMABLE TO RELEASE BRAKES. LOSS OF ARM DRIVE CAPABILITY. REDUNDANT PATHS REMAINING TO CONTINUE OPERATEORS: 1) DIRECT DRIVE "AND EE MANUAL MODES". 2) BACK-UP DRIVE. 3) JETTISON (TO SECURE ORBITER).	OMRSO OFFLINE  VARY IMPUT VOLTAGE TO MCIU. VERTFY THE REGULATED VOLTAGES AT OUTPUT OF MCIU.  CMRSD ONLINE INSTALLATION  MONE  CMRSD ONLINE TURNAROUND  MONITOR MCPC BITE. VERTFY ABSENCE OF BITE BITS.	
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REPARED 81		WG	SUPERCEDING DATE	- MINE	BATE: 11 JUL 91 CIL REV: 0	i